

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/806,194

DATE: 04/04/2001  
 TIME: 11:19:20

Input Set : A:\6177.txt  
 Output Set: N:\CRF3\04042001\I806194.raw

```

59 gctcccagat gccttctaga ttcactgtct ttgtattctt gattttcaag ctttcaaatc 1740
60 ctccctaactt ccaagaaaaa taattaaaaa aaaaacttca ttctaaacca aaaaaaaaaa 1800
61 aaaa 1804
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 518
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
70 Met Gly Ala Leu Ala Arg Ala Leu Leu Leu Pro Leu Leu Ala Gln Trp
71 1 5 10 15
73 Leu Leu Arg Ala Ala Pro Glu Leu Ala Pro Ala Pro Phe Thr Leu Pro
74 20 25 30
76 Leu Arg Val Ala Ala Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly
77 35 40 45
79 Pro Gly Thr Pro Ala Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu
80 50 55 60
82 Glu Pro Ala Leu Ala Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met
83 65 70 75 80
85 Val Asp Asn Leu Gln Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met
86 85 90 95
88 Leu Ile Gly Thr Pro Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly
89 100 105 110
91 Ser Ser Asn Phe Ala Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr
92 115 120 125
94 Tyr Phe Asp Thr Glu Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp
95 130 135 140
97 Val Thr Val Lys Tyr Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu
98 145 150 155 160
100 Asp Leu Val Thr Ile Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn
101 165 170 175
103 Ile Ala Thr Ile Phe Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys
104 180 185 190
106 Trp Asn Gly Ile Leu Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser
107 195 200 205
109 Ser Ser Leu Glu Thr Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile
110 210 215 220
112 Pro Asn Val Phe Ser Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala
113 225 230 235 240
115 Gly Ser Gly Thr Asn Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro
116 245 250 255
118 Ser Leu Tyr Lys Gly Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp
119 260 265 270
121 Tyr Tyr Gln Ile Glu Ile Leu Lys Leu Glu Ile Gly Gly Gln Ser Leu
122 275 280 285
124 Asn Leu Asp Cys Arg Glu Tyr Asn Ala Asp Lys Ala Ile Val Asp Ser
125 290 295 300
127 Gly Thr Thr Leu Leu Arg Leu Pro Gln Lys Val Phe Asp Ala Val Val
128 305 310 315 320
130 Glu Ala Val Ala Arg Ala Ser Leu Ile Pro Glu Phe Ser Asp Gly Phe

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131                               325                               330                               335
133 Trp Thr Gly Ser Gln Leu Ala Cys Trp Thr Asn Ser Glu Thr Pro Trp
134                               340                               345                               350
136 Ser Tyr Phe Pro Lys Ile Ser Ile Tyr Leu Arg Asp Glu Asn Ser Ser
137                               355                               360                               365
139 Arg Ser Phe Arg Ile Thr Ile Leu Pro Gln Leu Tyr Ile Gln Pro Met
140                               370                               375                               380
142 Met Gly Ala Gly Leu Asn Tyr Glu Cys Tyr Arg Phe Gly Ile Ser Pro
143 385                               390                               395                               400
145 Ser Thr Asn Ala Leu Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr
146                               405                               410                               415
148 Val Ile Phe Asp Arg Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro
149                               420                               425                               430
151 Cys Ala Glu Ile Ala Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe
152                               435                               440                               445
154 Ser Thr Glu Asp Val Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser
155                               450                               455                               460
157 Glu Pro Ile Leu Trp Ile Val Ser Tyr Ala Leu Met Ser Val Cys Gly
158 465                               470                               475                               480
160 Ala Ile Leu Leu Val Leu Ile Val Leu Leu Leu Leu Pro Phe Arg Cys
161                               485                               490                               495
163 Gln Arg Arg Pro Arg Asp Pro Glu Val Val Asn Asp Glu Ser Leu
164                               500                               505                               510
166 Val Arg His Arg Trp Lys
167                               515
170 <210> SEQ ID NO: 3
171 <211> LENGTH: 2070
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 3
176 atggcccaag cctgcacctg gctcctgctg tggatggggc cgggagtgct gcctgccacc 60
177 ggcacccagc acggcatccg gctgcacctg cgcagcggcc tggggggcgc cccctggggg 120
178 ctgcggctgc cccgggagac cgacgaagag cccgaggagc cgggcgggag gggcagcttt 180
179 gtggagatgg tggacaacct gaggggcaag tcggggcagg gctactacgt ggagatgacc 240
180 gtgggcagcc ccccgagac gctcaacatc ctggtggata caggcagcag taactttgta 300
181 gtgggtgctg ccccccaccc ctctctgcat cgctactacc agaggcagct gtccagcaca 360
182 tacgggagcc tcgggaaggg ttgtgtatgt cctacacccc agggcaagtg ggaaggggag 420
183 ctggggcacc acctggttag catcccccac ggccccaacg tcactgtgcg tgcacaatt 480
184 ggtgccatga ctgaatcaga caagtctctc atcaacggct ccaactggga aggcactctg 540
185 gggctggcct atgctgagat tgccaggcct gacgactccc tgagagcttt ctttgactct 600
186 ctgtgtaaag agaccacagt tcccaacctc ttctccctgc acctttgtgg tctgtgcttc 660
187 cccctcaacc agtctgaagt gctggcctct gtgcggagga gcatgatoat tggaggtatc 720
188 gaccactcgc tgtacacagg cagtctctgg tatacaccca tcggcgggga gtgtgtatt 780
189 gaggtcatca ttgtgcgggt ggagatcaat ggacaggatc tgaaaatgga ctgcaaggag 840
190 tacaactatg acaagagcat tgtggacagt ggcaccacca accttcgttt gcccaagaaa 900
191 gtgttttagc ctgcagtcac atccatcaag gcagcctcct ccaaggagaa gttccctgat 960
192 ggtttctgyc taggagagca gctgtgtgct tggcaagcag gcacacccc ttggaacatt 1020
193 ttccacagta tctcaactca cctaattggg gaggttacca accagtcctt ccgcataccc 1080
194 atccttcgcg agcaataact gggccagctg gaagatgtgg ccacgtccca agacagctgt 1140

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195 tacaagtttg ccatctcaca gtcateccag ggcactgtta tgggagctgt tateatggag 1200
196 ggcttctacg ttgtctttga tcgggcccga aaacgaattg gctttgctgt gacgcgttgc 1260
197 catgtgcacg atgagttcag gaaggcagcg gtggaagccc cttttgtcac cttggacatg 1320
198 gaagactgtg gctacaacat tccacagaca gatgagtcaa cctcatgac ctagcctat 1380
199 gtcatggctg ccatctgcgc cctcttcacg ctgccactct gctcatggtt gtgtcagttg 1440
200 cgtgcctccc gctgcctcgc ccagcagcat gatgactttg ctgatgacat ctccctgctg 1500
201 aagtgaggag gcccatgggc agaagataga gattccctcg gaccacacct cgtgggttca 1560
202 ctttggtcac aagtaggaga cacagatggc acctgtggcc agagcacctc aggccctccc 1620
203 ccacccacca aatgcctctg ccttgatgga gaaggaagg gctggcaagg tgggttccag 1680
204 ggactgtacc tgtaggaaac agaaaagaga agaaagaagc actctgctgg cgggataact 1740
205 cttggctacc tcaaatttaa gtctgggaat tctgctgctt gaaacttcag cctgaacct 1800
206 ttgtccacca ttctctttaa ttctccaacc caaagtattc ttctttctt agtttcagaa 1860
207 gtactgtcat cacacgcagg ttacctggcg gtgtgtccct gtgtaccctt ggcagagaag 1920
208 agaccaagct tgtttccctg ctggccaagg tcagtaggag aggatgcaca gtttgctatt 1980
209 tgctttagag acagggactg tataaacaag cctaacattg gtgcaaagat tgccctctga 2040
210 attaaaaaaa aaaaaaaaaa aaaaaaaaaa 2070

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212 &lt;210&gt; SEQ ID NO: 4

213 &lt;211&gt; LENGTH: 501

214 &lt;212&gt; TYPE: PRT

215 &lt;213&gt; ORGANISM: Homo sapiens

217 &lt;400&gt; SEQUENCE: 4

```

218 Met Ala Gln Ala Leu Pro Trp Leu Leu Trp Met Gly Ala Gly Val
219 1 5 10 15
221 Leu Pro Ala His Gly Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser
222 20 25 30
224 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
225 35 40 45
227 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
228 50 55 60
230 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
231 65 70 75 80
233 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
234 85 90 95
236 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
237 100 105 110
239 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
240 115 120 125
242 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
243 130 135 140
245 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
246 145 150 155 160
248 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
249 165 170 175
251 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Pro Asp Asp
252 180 185 190
254 Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr His Val Pro
255 195 200 205
257 Asn Leu Phe Ser Leu His Leu Cys Gly Ala Gly Phe Pro Leu Asn Gln
258 210 215 220

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